

Figure 1

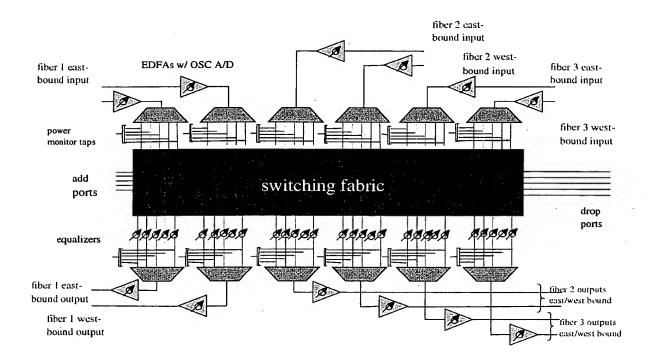


Figure 2

OTS in		BSF	DCM		C-Band FDFA	C-Band Mux	C-band Demux and	C-Band EDFA	L-Band EDFA	L-pailo Max	L-Band Mity	1 hand Damily and	L-Band EDFA	4 VOAs	4 VOAs	4 VOAs	4 VUAS	4 VOAs	4 VOAs	4 VOAs	Master Controller	→ OTS out
		4 Prot. Switches	4 Prot. Switches	A Prot Switches	4 Prot. Switches	4 Prot Switches	4 Prot. Switches	4 Prot. Switches			8		4 Prot. Switches	Master Controller								
OTS out	<b>←</b> —	4 VOAs	4 VOAs	A VOAs	4 VOAs	4 VOAs	4 VOAS	L-Band EDFA	ר-במות אותא	L-Band Min	I-band Demily and	L-Band EDFA	C-Band EDFA	C-Daild Mux	C Band Mix	C-hand Demux and	C-Band EDFA		DOM	BSF	Master Controller	<b>←</b> OTS in

Figure 3

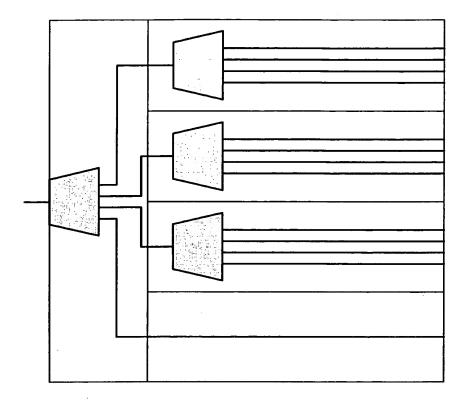


Figure 4

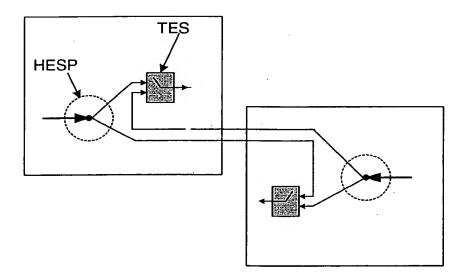


Figure 5

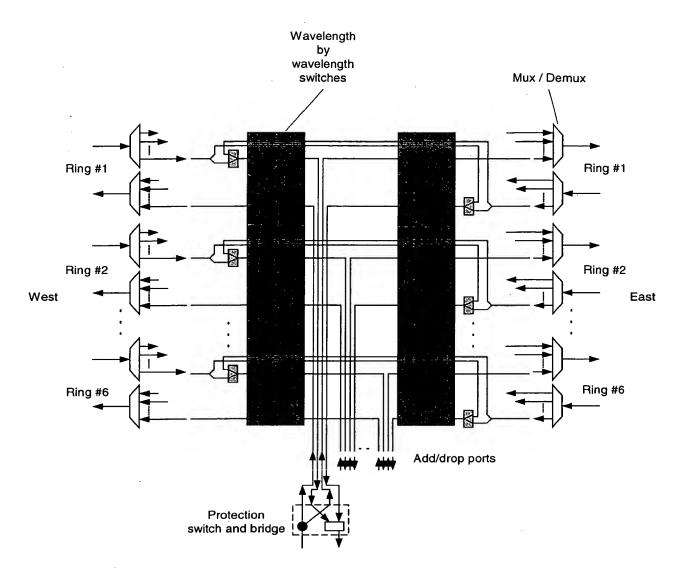


Figure 6

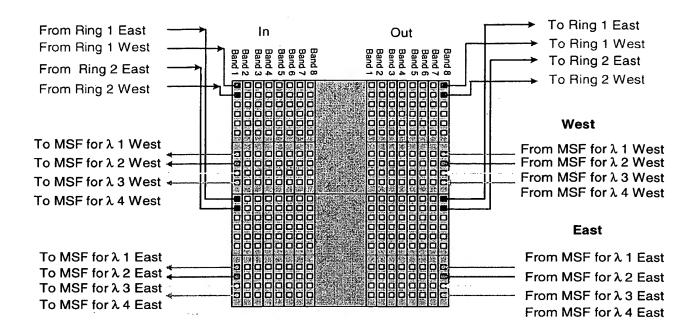


Figure 7

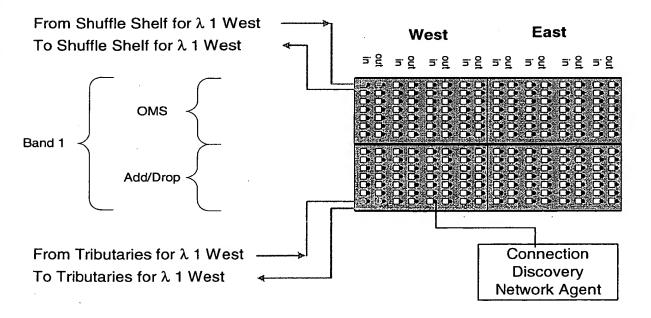


Figure 8

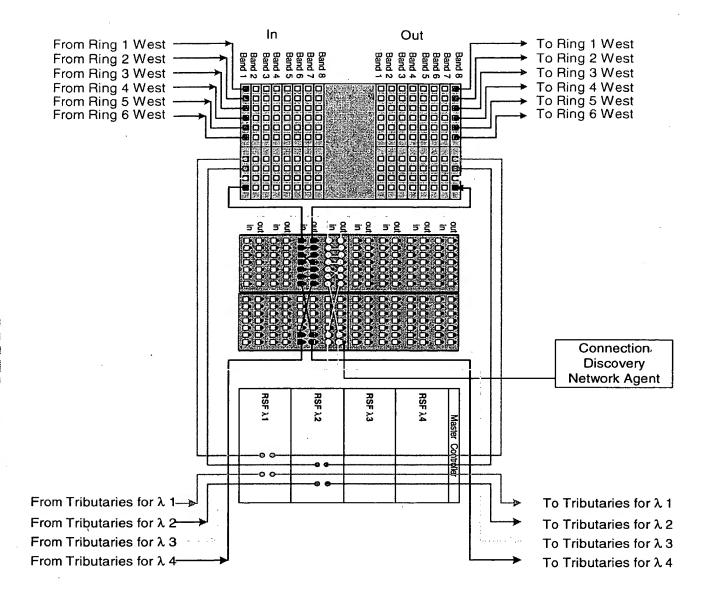


Figure 9

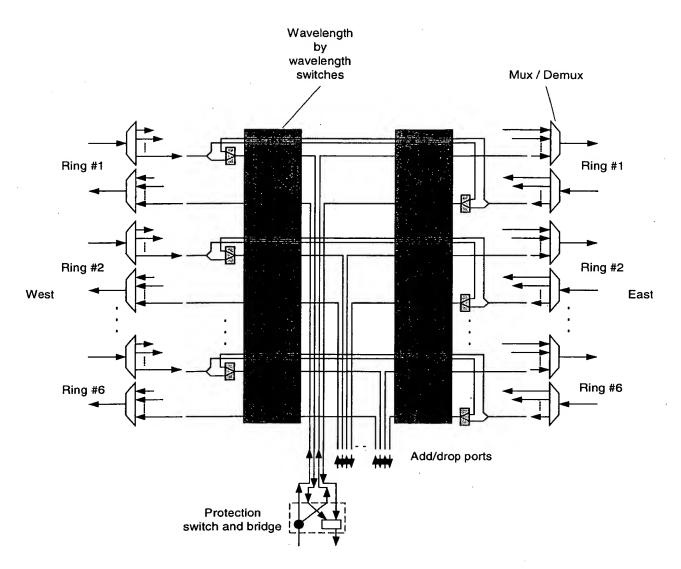


Figure 10

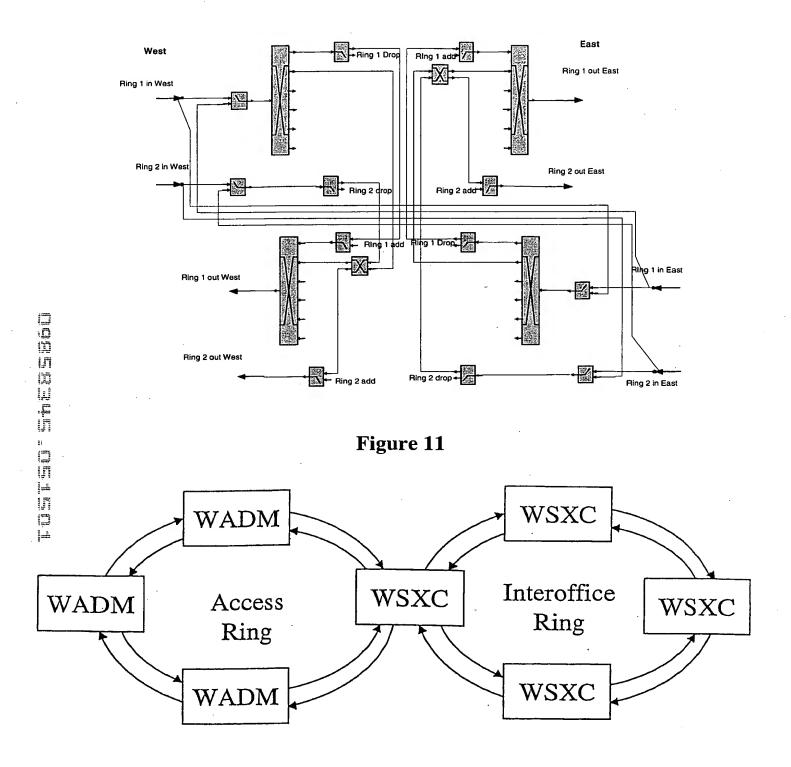


Figure 12

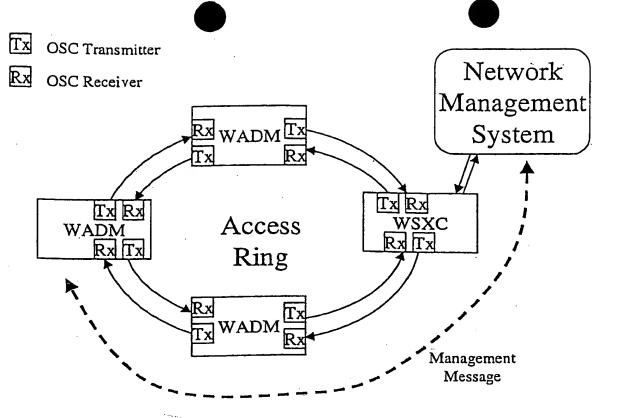


Figure 13

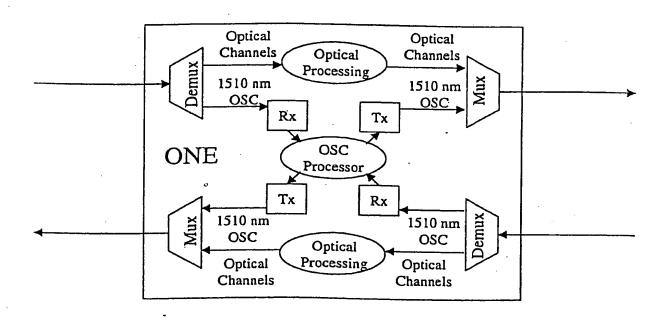


Figure 14

Figure 15

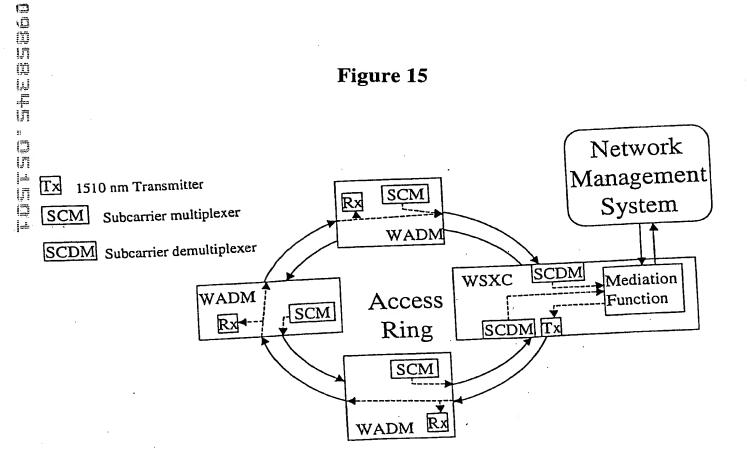


Figure 16

NMS to Ring Node 1		NMS to Ring Node N	Ring Node 1 to East Neighbor	Ring Node 1 to West Neighbor		Ring Node N to East Neighbor	Ring Node N to West Neighbor	
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Figure 17

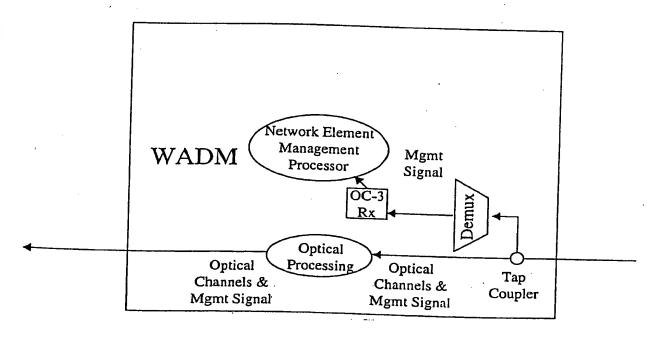


Figure 18

Ring Node J to East Neighbor West Neighbor	Ring Node J to NMS
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Figure 19

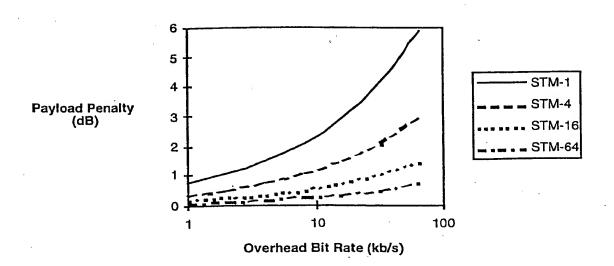


Figure 20

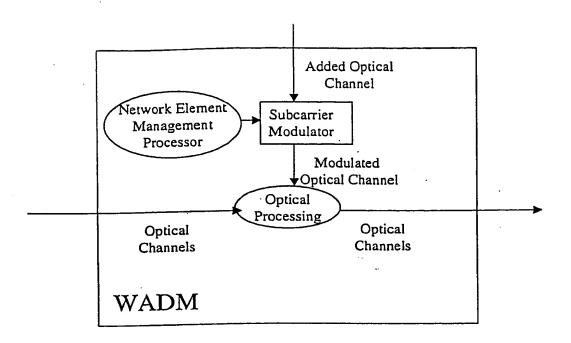


Figure 21

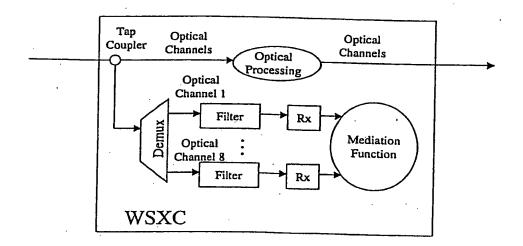
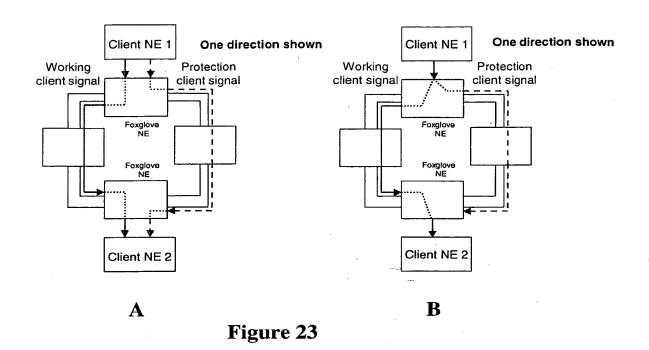


Figure 22



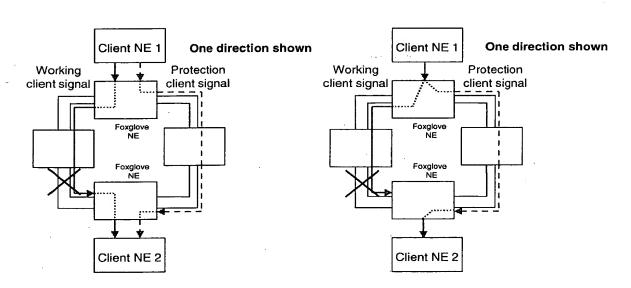


Figure 24

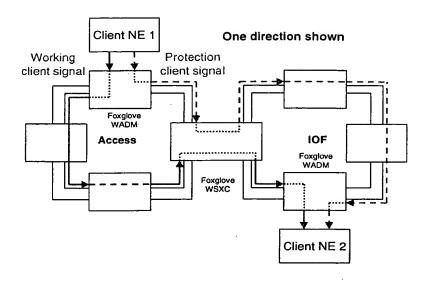


Figure 25

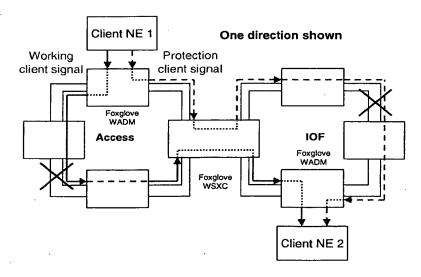


Figure 26

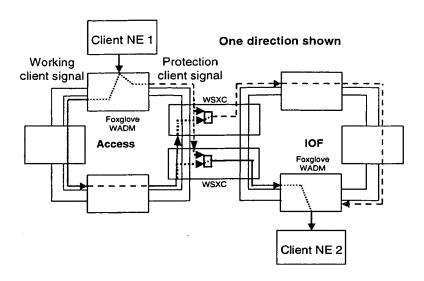


Figure 27 (Prior Art)

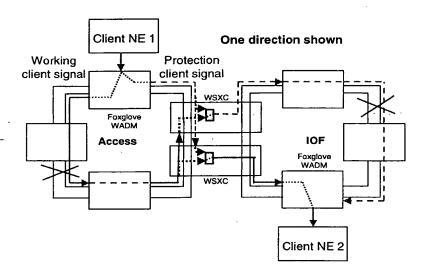


Figure 28 (Prior Art)

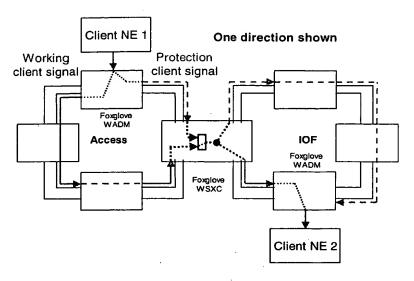


Figure 29

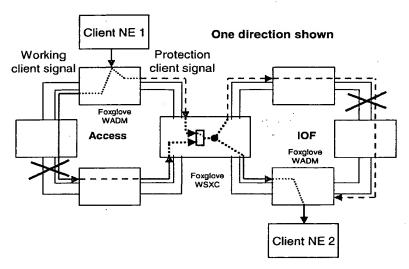


Figure 30

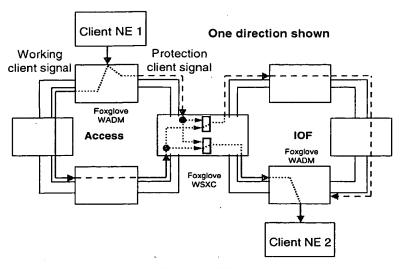


Figure 31

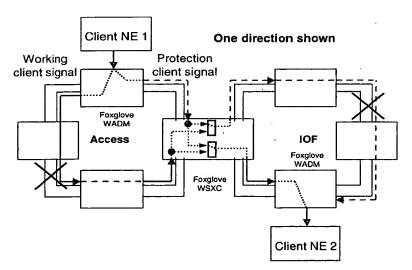


Figure 32

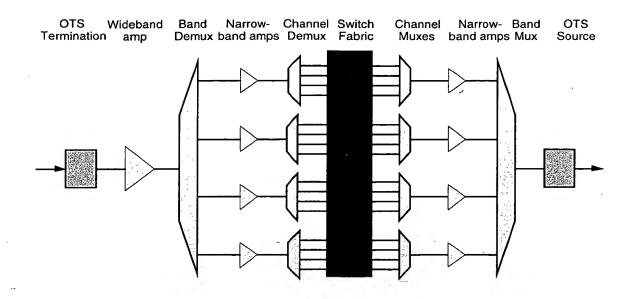


Figure 33

Figure 34

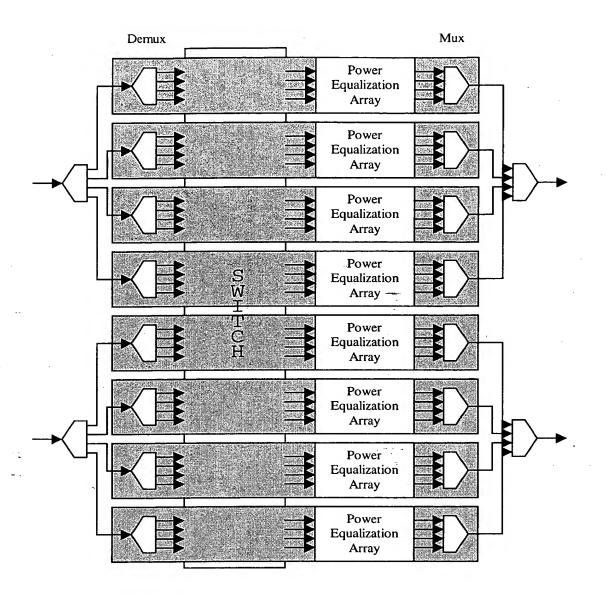


Figure 35

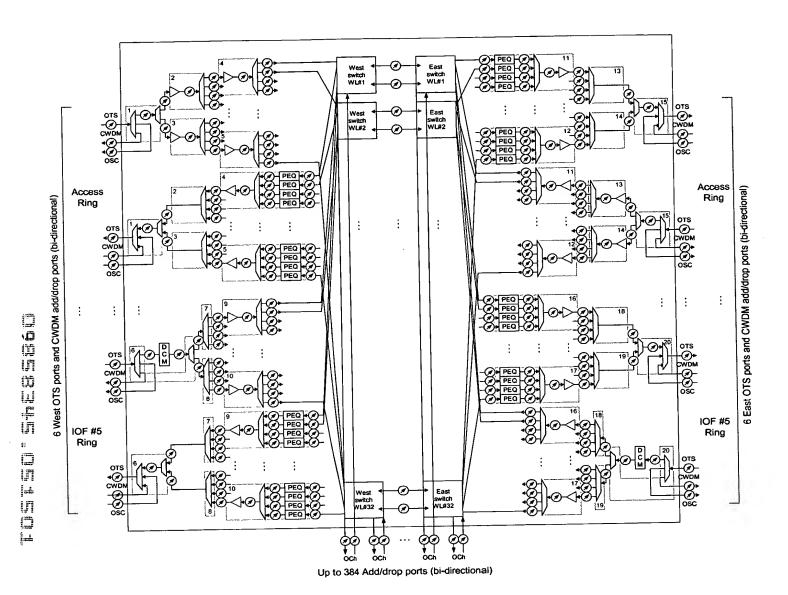


Figure 36

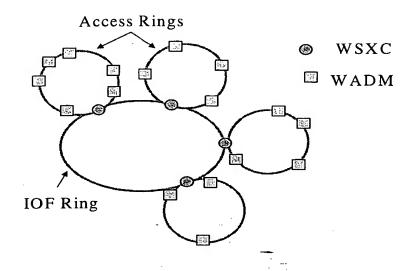


Figure 37

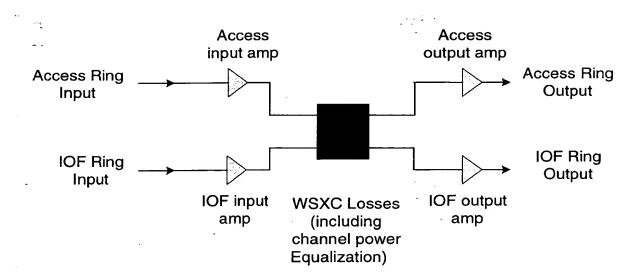


Figure 38